

## PATENT COOPERATION TREATY

From the  
INTERNATIONAL SEARCHING AUTHORITY

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To:

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WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

Date of mailing  
(day/month/year) 14 SEPTEMBER 2004 (14.09.2004)

Applicant's or agent's file reference  
FE241455

## FOR FURTHER ACTION

See paragraph 2 below

International application No.

PCT/KR2004/001308

International filing date (day/month/year)

02 JUNE 2004 (02.06.2004)

Priority date (day/month/year)

02 JUNE 2003 (02.06.2003)

International Patent Classification (IPC) or both national classification and IPC

IPC7 H04L 12/28

Applicant

UTStarcom Korea Limited et al

## 1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

## 2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

## 3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/KR



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WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/KR2004/001308

Box No. I Basis of this opinion

1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.  
☐ This opinion has been established on the basis of a translation from the original language into the following language \_\_\_\_\_, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
  - a. type of material  
☐ a sequence listing  
☐ table(s) related to the sequence listing
  - b. format of material  
☐ in written format  
☐ in computer readable form
  - c. time of filing/furnishing  
☐ contained in the international application as filed.  
☐ filed together with the international application in computer readable form.  
☐ furnished subsequently to this Authority for the purposes of search.
3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

PCT/KR2004/001308

**Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

**1. Statement**

Novelty (N)	Claims	1, 2	YES
	Claims		NO
Inventive step (IS)	Claims		YES
	Claims	1, 2	NO
Industrial applicability (IA)	Claims	1, 2	YES
	Claims		NO

**2. Citations and explanations :**

1. Reference is made to the following document:

D: US 2002/0034162 A1 (Kenneth W. Brinkerhoff, Wayne P. Boese, Robert C. Hutchins, Stanley Wong) 21 March 2002

2. The present invention relates to a router for supporting the IMA (Inverse Multiplexing over ATM) function in a mobile communication network wherein a data service of band width more than E1/T1 is provided to a subscriber by establishing the combined function of CSU/DSU(Channel Service Unit/Digital Service Unit and IMA.

3. The available prior art D relates to an integrated access device apparatus and method for accessing digital information signals transmitted in an Asynchronous Transfer Mode(ATM). An object of D is to provide an Integrated Access Device(IAD) for ATM information communications, which provides bridging, routing, and interworking functions between ports selected from a group including ATM, Ethernet, Frame Relay, Voice, and Video signal technologies. The IAD applies ATM inverse multiplexing to the aggregate of several wideband links into a single broadband connection.

4. The present invention is characterized by improving the service quality by establishing the combined functions to a router which supports an IMA function. However, the present invention is not considered to involve an inventive step by D which provides a data service of band width more than E1/T1 through IAD provided with a module having the combined functions of CSU/DSU.

5. Therefore, Claims 1 and 2 are not considered to be inventive as the result of the teaching of D.